

# INSTALLATION ACTION PLAN for DESERET CHEMICAL DEPOT



Fiscal Year 2005

**FY 2005**

**Deseret Chemical Depot  
Utah  
Installation Action Plan**



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# Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year environmental restoration program for an installation. The plan will define Installation Restoration Program (IRP) requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each Solid Waste Management Unit (SWMU) site in the Deseret Chemical Depot Installation Restoration Program.

In an effort to coordinate planning information between the IRP manager, major Army commands (MACOMs), installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for the Deseret Chemical Depot (DCD). The IAP is used to track requirements, schedules and tentative budgets for all major Army installation restoration programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is therefore subject to change during annual review of the document. This plan assumes that the Deseret Chemical Depot will remain under Federal control and therefore some waste may be left in place. Under current project funding, all remedies will be in place at DCD by the end of 2007.

## **The following agencies contributed to the formulation and completion of this Installation Action Plan:**

Deseret Chemical Depot

Engineering & Environment, Inc.

Kleinfelder

U.S. Army Environmental Center

U. S. Environmental Protection Agency, Region 8

U.S. Army Corps. of Engineers, Sacramento

Utah Department of Environmental Quality

# Acronyms & Abbreviations

<b>AEDBR</b>	Army Environmental DataBase Restoration (replaced DESERTS in 2003)
<b>CAMDS</b>	Chemical Agent Munitions Disposal System (changed to OMF)
<b>CAP</b>	Corrective Action Plan
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act
<b>CM</b>	Corrective Measure
<b>CMA</b>	Chemical Materials Agency
<b>CMD</b>	Corrective Measure Design
<b>CMI</b>	Corrective Measure Implementation
<b>CMS</b>	Corrective Measure Study
<b>DERA</b>	Defense Environmental Restoration Account
<b>DCD</b>	Deseret Chemical Depot
<b>DRMO</b>	Defense Reutilization and Marketing Office
<b>DSERTS</b>	Defense Site Environmental Restoration Tracking System
<b>DSMOA</b>	Defense, State Memorandum of Agreement
<b>ER,A</b>	Environmental Restoration, Army (formally called DERA)
<b>FFSRA</b>	Federal Facility Site Remediation Agreement
<b>FS</b>	Feasibility Study
<b>FY</b>	Fiscal Year
<b>IRA</b>	Interim Remedial Action
<b>IRP</b>	Installation Restoration Program
<b>MCL</b>	Maximum Contaminant Level
<b>NE</b>	Not Evaluated
<b>NFA</b>	No Further Action
<b>OMF</b>	Oquirrh Mountain Facility
<b>PCB</b>	Polychlorinated biphenyl
<b>PMCD</b>	Program Manager for Chemical Demilitarization
<b>POL</b>	Petroleum, Oil & Lubricants
<b>PRP</b>	Potentially Responsible Party
<b>R&amp;D</b>	Research and Development
<b>RA</b>	Remedial Action
<b>RA(C)</b>	Remedial Action - Construction
<b>RA(O)</b>	Remedial Action - Operation
<b>RAB</b>	Restoration Advisory Board
<b>RC</b>	Response Complete
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RD</b>	Remedial Design
<b>REM</b>	Removal Action
<b>RI</b>	Remedial Investigation
<b>RIP</b>	Remedy in Place
<b>ROD</b>	Record of Decision
<b>RRSE</b>	Relative Risk Site Evaluation
<b>SBCCOM</b>	Solider, Biological and Chemical Command
<b>SI</b>	Site Inspection
<b>SVOC</b>	Semi-Volatile Organic Compound
<b>SWMU</b>	Solid Waste Management Unit
<b>TCA</b>	Tooele Chemical Activity
<b>TCE</b>	Trichloroethylene/ Trichloroethene
<b>TCLP</b>	Toxicity Characteristic Leaching Procedure
<b>TEAD</b>	Tooele Army Depot
<b>TEAD(S)</b>	DSERTS classification code for DCD sites

# Acronyms & Abbreviations

<b>TOCDF</b>	Tooele Chemical Agent Disposal Facility
<b>TPH</b>	Total Petroleum Hydrocarbon
<b>UDEQ</b>	Utah Department of Environmental Quality
<b>USACHPPM</b>	United States Army Center for Health Promotion and Preventive Medicine
<b>USAEC</b>	United States Army Environmental Center
<b>USAEHA</b>	United States Army Environmental Hygiene Agency (changed to USACHPPM)
<b>USATHAMA</b>	United States Army Toxic and Hazardous Materials Agency (changed to USAEC)
<b>UXO</b>	Unexploded Ordnance
<b>VOC</b>	Volatile Organic Compound

## Conversion SWMU to AEDB-R

SWMU	Site Name	AEDB-R
SWMU 1	Eastern Demil/ Disposal Pits	TEAD(S)-01
SWMU 11	Chemical Munitions Storage Area (Area 10)	TEAD(S)-11
SWMU 13	CAMDS Facility	TEAD(S)-12
SWMU 14	Building 5108 (Former Motor Pool)	TEAD(S)-27
SWMU 15	Old Demolition Pit (Under Building C-4002)	TEAD(S)-13
SWMU 17	Deactivation Furnace	TEAD(S)-14
SWMU 19	Building 533 (Empty Drum Storage)	TEAD(S)-28
SWMU 2	Gravel Pit Area	TEAD(S)-02
SWMU 20	Building 520 (Crating Facility)	TEAD(S)-29
SWMU 21/22	Incendiary Washout Operations (Bldg 554) & Basins	TEAD(S)-15
SWMU 23	Demilitarization Holding Area (North of SWMU 1)	TEAD(S)-16
SWMU 25	Western Demil Area/ Disposal Pits	TEAD(S)-22
SWMU 26	Sanitary Landfill	TEAD(S)-17
SWMU 27	Sewage Treatment Plant	TEAD(S)-18
SWMU 28	Inactive Landfill	TEAD(S)-19
SWMU 29	Metal Scrap Landfill	TEAD(S)-20
SWMU 3	Disposal Pit	TEAD(S)-03
SWMU 30	CAMDS Landfill	TEAD(S)-23
SWMU 31	Demilitarization Area (Northeast of SWMU 1)	TEAD(S)-24
SWMU 32	Railroad Scrap Yard	TEAD(S)-21
SWMU 33	Building 536 (CAMDS Salt Storage)	TEAD(S)-30
SWMU 34	Building 4105 (Carbon Storage)	TEAD(S)-31
SWMU 36	Building 3200 & Surrounding Area	TEAD(S)-08
SWMU 37	Slag Piles & Bomb Fragments	TEAD(S)-32
SWMU 5	Building 600 Foundation, Drainage, Pond & Ditch	TEAD(S)-05
SWMU 8	Surveillance Test Site	TEAD(S)-26



<b>STATUS:</b>	Non-NPL Installation with a RCRA Corrective Action permit	
<b>NUMBER OF DSERTS SITES:</b>	27 DSERTS sites (2 RC sites were deleted) - 3 Active ER,A Eligible Sites - 5 Remedy In Place with Long Term Monitoring - 19 Response Complete Sites	
<b>DIFFERENT DSERTS SITE TYPES (Of the sites in DSERTS):</b>	1 Surface Disposal Area      2 Chemical Disposal 1 Drainage Ditch      1 Disposal Pit/ Dry Well 1 Leach Field      5 Landfills 4 Storage Areas      1 Surface Impoundment/ Lagoon 5 Spill Site Areas      1 Waste Treatment Plant 4 Explosive Ordnance Disposal Areas 1 Unexploded Munition/ Ordnance	
<b>CONTAMINANTS OF CONCERN:</b>	Metals, organics and the potential for chemical agents and their break-down products	
<b>MEDIA OF CONCERN:</b>	Soil, groundwater	
<b>COMPLETED REM/IRA/RA:</b>	- REM - Solid waste in 1990, non-ER,A funds - REM - Cr-contaminated soil (date unknown), non-ER,A funds - IRA - TEAD(S)-14 (SWMU 17) Hg-contaminated soil in 1990	
<b>CURRENT IRP PHASES:</b>	RFI at 2 sites   LTM at 10 sites	
<b>PROJECTED IRP PHASES:</b>	RFI at 2 sites   IRA at 2 sites   CMD at 3 sites CMI at 3 sites   LTM at 9 sites	
<b>IDENTIFIED POSSIBLE REM/IRA/RA:</b>	- IRA at TEAD (S)-01, 22 - CMI at TEAD (S)-01, 02, 22	
<b>DURATION:</b>	YEAR OF IRP INCEPTION: 1979 YEAR OF IRP COMPLETION EXCLUDING LTM: 2010 YEAR OF IRP COMPLETION INCLUDING LTM: 2032	

# Installation Information

## ***SITE DESCRIPTION:***

DCD is located on 19,364 acres and is approximately 50 miles southwest of Salt Lake City in Rush Valley in Tooele County, UT. The area surrounding DCD is a sparsely settled, rural area. Population density is approximately three persons per square mile in the valley, with nearly the entire population concentrated in a few communities. The small towns in the vicinity of DCD, including Clover, St. John, Faust, Ophir, and Stockton, have a combined population of approximately 1,000.

## ***COMMAND ORGANIZATION:***

**MAJOR COMMAND:** U.S. Army Materiel Command (AMC), Engineering, Housing and Installation Logistics, Environmental Quality  
**MAJOR SUBORDINATE COMMAND:** Chemical Materials Agency  
**INSTALLATION:** DCD Risk Management Directorate

## ***IRP EXECUTING AGENCIES:***

**Investigation Phase Executing Agency:** U.S. Army Corps of Engineers (USACE), Sacramento District  
**Remedial Design/Action Phase Executing Agency:** U.S. Army Corps of Engineers (USACE), Sacramento District

## ***REGULATORY PARTICIPATION:***

**FEDERAL:** U.S. Environmental Protection Agency (EPA), Region VIII  
**STATE:** Utah Department of Environmental Quality (UDEQ)

## ***REGULATORY STATUS:***

Technical Review Committee, Feb 1988  
RCRA Corrective Action Permit, Jun 1989  
Restoration Advisory Board (RAB), Jan 1999

# Installation Description

During World War II, the Defense Department ordered the construction of a storage depot for chemical agents. This facility was named the Deseret Chemical Depot. The storage facility included 140 igloos, 2 magazines, 7 warehouses, 32 storage sheds for toxic material, and several transitory storage shelters.

In May 1955, Deseret Chemical Depot (DCD) was redesignated the Deseret Depot Activity and placed under the command of Tooele Army Depot (TEAD). In 1962, the Depot Activity became part of TEAD and was designated as the South Area. In October 1995, the South area was made a separate installation from TEAD and was named as Tooele Chemical Activity (TCA). In October 1996, TCA was officially changed back to the original name as Deseret Chemical Depot.

The primary mission of DCD is the storage, surveillance and demilitarization of chemical ammunition and to provide installation support to activities, Tooele Chemical Agent Disposal Facility (TOCDF), and Oquirrh Mountain Facility (OMF) (formerly Chemical Agent Munitions Disposal Systems [CAMDS]).

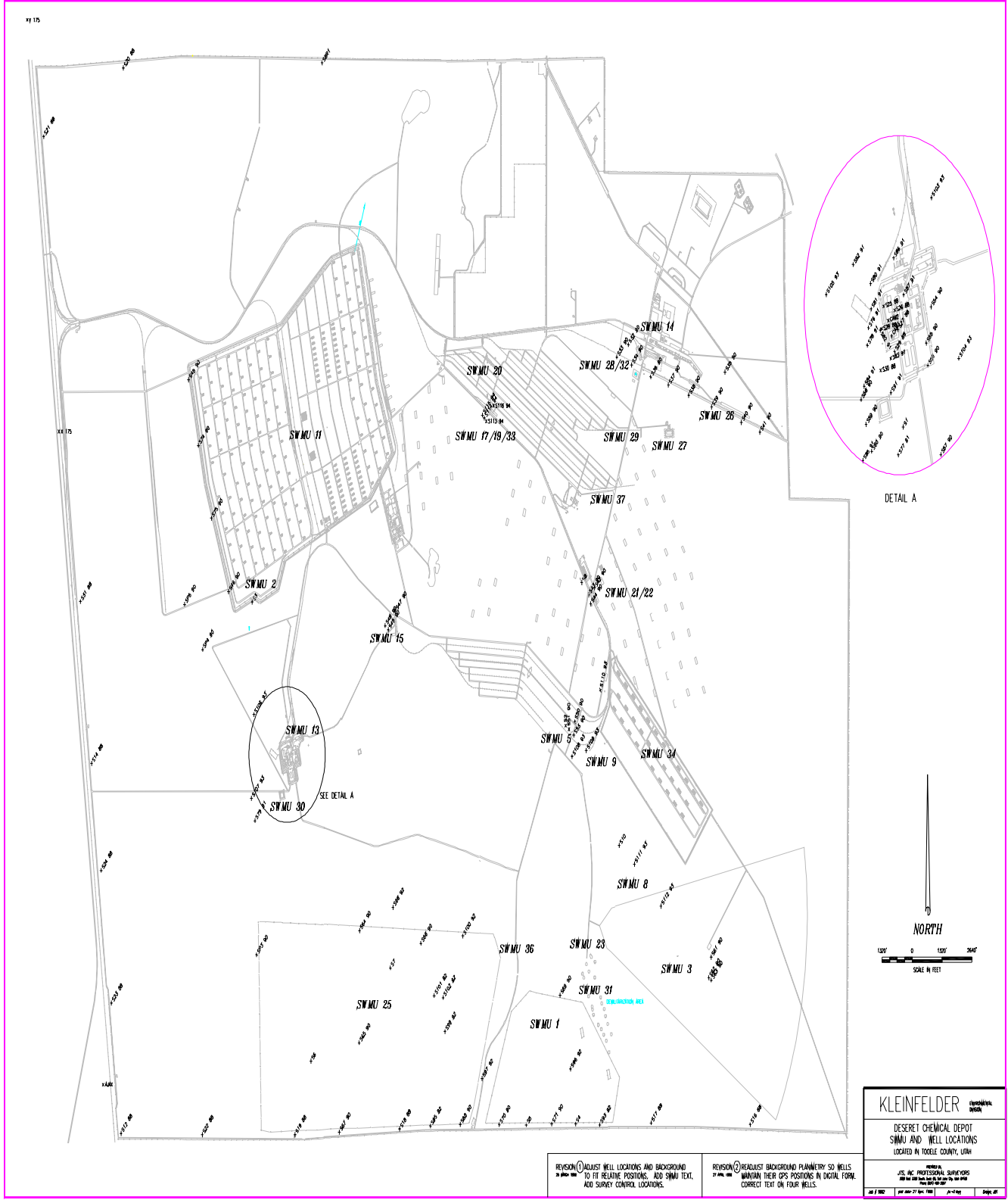
TOCDF is a full-scale incinerator and treatment facility which includes four incinerators used for various decontamination activities associated with chemical agents and munitions. The operations of the plant is performed by EG&G under the direction of the Program Manager for Chemical Demilitarization (PMCD).

The OMF is a research development (R&D) facility to demonstrate technology for chemical munitions handling disassembly, incineration, pollution control, and treatment of waste. Various alternatives to incineration for destruction of chemical and conventional munitions have been tested and evaluated at the facility. Recently, the OMF has been permitted to destroy chemical agents and munitions by incineration.

On 30 June 89, the State of Utah issued a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit for the Chemical Stockpile Disposal Plant. Attached to this Permit was a Corrective Action Permit (CAP) for 28 Solid Waste Management Units (SWMUs). The CAP divided the SWMUs into known releases and suspected releases units and set schedules for the implementation of investigations and clean-ups under RCRA. In 1991, a 29th SWMU was added to the Permit.

The CAP was requested to be moved from the TOCDF permit to the DCD RCRA hazardous waste permit and was approved in November 2000.

DCD has initiated a program to integrate planning, decision, and implementation of restoration at DCD. DCD calls this program "Team Deseret." The purpose of Team Deseret is to stimulate interaction among the key players, both government and non-government, in the restoration program at DCD. In addition, it is anticipated that local communities and governments will have greater input into the restoration process because of Team Deseret. Members of Team Deseret will include people from DCD, UDEQ, Product Manager for Non-Stockpile Chemical Materiel, USACE, EPA, US Army Environmental Center (USAEC), OMF, local universities, and other state/local agencies.



REVISION ① ADJUST WELL LOCATIONS AND BACKGROUND  
TO FIT RELATIVE POSITIONS. ADD SWMU TEXT,  
ADD SURVEY CONTROL LOCATIONS.

REVISION ② REQUEST BACKGROUND PLANNERY SO WELLS  
MAINTAIN THEIR GPS POSITIONS IN DIGITAL FORM.  
CORRECT TEXT ON FOUR WELLS.

<b>KLEINFELDER</b> SURVEYING INCORPORATED	
DESERET CHEMICAL DEPOT SWMU AND WELL LOCATIONS LOCATED IN TOOELE COUNTY, UTAH	
JES, INC. PROFESSIONAL SURVEYORS 20100 W. 1000 N. SUITE 100 MIDWINTER, UT 84049 PHONE: 435.734.1100 FAX: 435.734.1101	
DATE: 08/11/2010	SHEET: 001 OF 001

# Contamination Assessment

Past operations at DCD have resulted in the generation of various types of contaminants and their disposal across the installation. Solvents, heavy metals and explosives are the primary contaminants, with chemical agent breakdown products being detected at several sites.

An initial Installation Assessment (December 1979) and a follow up investigation Exploratory Survey (1982) investigated contamination. The conclusion of these investigations was that DCD was generally uncontaminated except for arsenic and gross-alpha and gross-beta radiation. The arsenic was hypothesized to be naturally occurring (exacerbated by local flooding that washed mine tailings from nearby mountains). Because there was no evidence or record of use, storage, or disposal of any radioactive material at DCD, this radiation was attributed to naturally occurring radionuclides.

The U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) (formerly known as the U.S. Army Environmental Hygiene Agency), prepared a SWMU Evaluation report in 1987 on all SWMUs at DCD to identify data gaps in the existing database for the RCRA Part B Application that was pending for OMF. The EPA performed a RCRA Facility Assessment at DCD in August 1987.

Since much information had been discovered since the Initial Assessment was prepared in 1979, and many changes to environmental laws had been enacted, a site-wide preliminary assessment/site investigation (PA/SI) was completed in 1988. Seventeen sites at DCD were investigated. Four of the highest priority sites recommended for further study in the PA/SI were included in a Remedial Investigation in 1990. These sites were OMF Sites (TEAD[S]-12, SWMU 13), the Area 2 (TEAD[S]-09, SWMU 9), the Deactivation Furnace (TEAD[S]-14, SWMU 17), and the South General and Perimeter Areas.

Following the issuance of the CAP in 1989, the focus of the studies changed from the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) to RCRA. Of the 29 SWMUs listed in the permit, two are categorized as Known Releases and the remaining 27 are grouped together as Suspected Releases. For the current status of these sites, see the Site Description Section (there are only 3 sites still requiring significant cleanup action.)

Installation wide groundwater monitoring has shown only low levels of contamination. This requires continued monitoring. No off-post contamination has been detected.

# Previous Studies

Title	Author	Date
Environmental Photographic Interpretation Center Report	USEPA and EPIC	1982
Exploratory Environmental Contamination Assessment Report	ERTEC	1982
SWMU Evaluation	USAEHA	1986
Environmental Assessment of Tooele Army Depot, Report # 141	USATHAMA	December-79
Installation Environmental Assessment	Inland Pacific Engineering Co	June-82
Analysis of Existing Facilities/Environmental Assessment Report	TEAD Facilities Engineering	May-83
Monitoring Activity and Waste Disposal Review and Evaluation	CH2M Hill	January-85
A Study of Environmental Balance	Department of the Army	March-85
Performance of Remedial Response Activities at Uncontrolled Hazardous Waste Sites - Final Plan	CDM	March-85
Analytical/Environmental Assessment Report	TEAD Facilities Engineering	November-85
Environmental Photographic Interpretation Center Report Addendum	USEPA and EPIC	July-86
Draft Interim RCRA Facility Assessment	NUS Corporation	August-87
Preliminary Assessment/Site Investigation Report	EA Engineering Science and Technology	December-88
Phase I RFI Summary Report for Known Releases Units	EBASCO	March-90
Final Remedial Investigation Report	Roy F. Weston	January-91
Interim Final RFI Report for Group 1 Suspected Releases	EBASCO	November-95
Draft Phase II RFI Report for Group 3 SWMUs	SAIC	December-95
Remedial Design for RCRA Sites	Jabcos Engineering	March-96
Remedial Action Work Plan for Two RCRA Sites	Davy International	October-96
Final Corrective Measures Study Work Plan for the Known Releases SWMUs	Rust Environment & Infrastructure	January-97
Final Phase II RCRA Facility Investigation Report, Known Releases SWMUs 13 & 17	Rust Environment & Infrastructure	April-97
Hazardous and Medical Waste Study, Relative Risk Site Evaluation, Deseret Chemical Depot	USACHPPM	April-97
Addendum to the Final Phase II RFI Report	Foster Wheeler	December-97

# Previous Studies

Title	Author	Date
Relative Risk Site Evaluation Scores for Five "Not-Evaluated" Sites at Deseret Chemical Depot	USACHPPM	January-98
Remedial Action at the Metal Scrap Landfill Site (SWMU 29)	Kvaerner Environmental	July-98
Sampling for Elevated Barium Concentrations in Soils at SWMU 22	Kleinfelder	January-99
Revised Final Phase II RFI Report for Group 2 SWMUs	Foster Wheeler	February-99
Final CMS Work Plan for Group 2 SWMUs	Foster Wheeler	August-99
Final CMS Report for Group 2 SWMUs	Foster Wheeler	October-99
Final DD for Group 2 SWMUs	Foster Wheeler	December-99
Final CMS for Known Release SWMU 13	Dames & Moore	June-00
Final CMS for Known Release SWMU 17	Dames & Moore	June-00
Final DD for Known Release SWMU 13	Dames & Moore	April-01
CMS for Elevated Barium at SWMU 22	Kleinfelder	April-01
Final DD for Known Release SWMU 17	Dames & Moore	April-01
CMS for SWMU 11	URS	July-02
DD for SWMU 20	URS	July-02
DD for SWMU 19	URS	July-02
DD for SWMU 33	URS	July-02
DD for SWMU 37	URS	July-02
DD for SWMU 11	URS	July-02
CMS for SWMU 20	URS	July-02
CMS for SWMU 19	URS	July-02
CMS for SWMU 33	URS	July-02
CMS for SWMU 37	URS	July-02
Draft Work Plan for SWMU 19	USACE	July-02
Final corrective measure Work Plan for SWMU 5	Tetra Tech	November-02
Final Work Plan for SWMU 3	Parsons & DCD	December-02
Draft Work Plan SWMU 9/30	Parsons	September-02
Phase II RCRA Facility Investigation Report for SWMU 22	Kleinfelder	September-02
Revised Final CMS Design Work Plan for SWMU 8	Kleinfelder	January-03

## Previous Studies

Title	Author	Date
Preconstruction documents for the 2002 Remedial Action at SWMU 5	North Wind, Inc.	February-03
Draft Corrective Measures Completion Report for SWMU 37	Kleinfelder	June-03
Corrective Measures Completion Report for SWMU 37	Kleinfelder	July-03
Corrective Measures Completion Report for SWMU 08	Kleinfelder	November-03



## **Suspected Releases**

# **Deseret Chemical Depot Active Sites**

# TEAD(S)-01, SWMU 1

## Eastern Demil/ Disposal Pits

### SITE DESCRIPTION

This SWMU contains approximately 130 disposal pits and trenches within a fenced area of approximately 373 acres along the southern fence on the installation. These pits were used to destroy and dispose of explosive and chemical munitions from 1945 to 1978. There is ordnance scrap and the potential for UXO on the surface. There is a potential for agent-contaminated materials and UXOs below surface in the burial pits. (The U.S. Army Program Manager for Chemical Demilitarization has included this SWMU in their Non-Stockpile Survey and Analysis Report.)

Limited samples have been taken at this site, no COCs were detected in soil.

Groundwater monitoring has not detected any chemical agent breakdown products or any other chemicals of concern at significant levels.

The Army performed an ordnance sweep and removal of adjacent off-post properties. Surface clearance of roadways was also performed in 2003. Only conventional munitions were discovered.

### STATUS

**RRSE RATING:**

Medium Risk

**CONTAMINANTS OF CONCERN:**

Chemical Munitions, Agents, Explosives

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

Phase II RFI

**FUTURE IRP PHASE:**

IRA, CMD, CMI, LTM

### PROPOSED PLAN

Groundwater monitoring will continue. A site surface sweep for ordnance will be completed. It is assumed that a limited number of munitions will require destruction at an existing DCD facility.

The Phase II RFI will be completed to describe risk for the site and consist of soil and soil gas sampling at many selected locations throughout the 373 acres, and mapping of pit locations and an UXO non-intrusive survey. Maintain the GIS system that was started in FY03. Institutional controls, such as fencing improvements, will be implemented. No large scale intrusive work is planned.

## TEAD(S)-02, SWMU-2 Gravel Pit Area

### SITE DESCRIPTION

This SWMU, covering 5.8 acres, was reported to be used for burial of high explosive and chemical agent munitions without demilitarization. SWMU 2 is located within SWMU 11 (Chemical Munitions Storage Area [Area 10], TEAD(S)-11), the current chemical munitions storage area.

Phase I RFI samples found no contamination in the surface soil samples. Groundwater testing revealed no releases.

### PROPOSED PLAN

Groundwater monitoring will continue through 2010. Institutional controls will be maintained, and possibly modified upon conclusion of the chemical storage mission. CMS is recommended but will not be implemented until closure of SWMU11. Capping of the area may be needed.

### STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

Chemical Munitions, Agents, Explosives

**MEDIA OF CONCERN:**

Soil, Subsurface soil

**COMPLETED IRP PHASE:**

PA/SI

**CURRENT IRP PHASE:**

RFI

**FUTURE IRP PHASE:**

CMD, CMI

## TEAD(S)-03, SWMU 3 Disposal Pit

### SITE DESCRIPTION

This SWMU is located in the southeastern corner of the installation and is approximately 200 x 10 ft. The area was reported to have been used for maintenance of leaking chemical munitions and it was also identified as the site of a 1960s nerve agent spill.

The RFI found metals in the soil and low levels of metals and VOCs in groundwater. The trench was not sampled due to the possible presence of chemical agents.

A UXO survey was completed in FY02. CMI was completed in 2004.

### PROPOSED PLAN

Groundwater monitoring will continue.

### STATUS

**RRSE RATING:**

High Risk

**CONTAMINANTS OF CONCERN:**

VOCs, Metals, Agents

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMD

**CURRENT IRP PHASE:**

CMI, LTM

**FUTURE IRP PHASE:**

LTM

## Building 600 Foundation, Drainage, Pond & Ditch

### SITE DESCRIPTION

Building 600 activities included chemical munitions and white phosphorus grenades renovation as well as the washout of high explosive cluster bombs from the late 1940s and early 1970s. The waste was drained to an unlined drainage pond (approximately 100 x 50ft) east of the building. In addition, paint constituents and chromic acid were listed as potential contaminants in the groundwater and soil.

RFI sampling detected metals and VOCs in the soil. Recent sampling has not detected any contaminants of concern in groundwater.

The CMI Workplan was finalized in September 2002. Hot spots were removed and backfilled with clean soil (FY04).

### STATUS

**RRSE RATING:**

Medium Risk

**CONTAMINANTS OF CONCERN:**

Chromium, VOCs

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMD, CMS

**CURRENT IRP PHASE:**

LTM

**FUTURE IRP PHASE:**

LTM

### PROPOSED PLAN

Implement site controls to limit exposure and continue groundwater monitoring. A closure report was completed in 2004.

# TEAD(S)-26, SWMU 8 Surveillance Test Site

## SITE DESCRIPTION

This SWMU is a 68-acre munitions testing area. Two trenches that contained munitions debris were cleaned. UXO fragments are present at this SWMU, from previous operations at the active Demilitarization Area (TEAD[S]-31, SWMU 31).

A UXO survey was completed in FY02. The final CMD workplan was approved in early FY03.

Ordnance-related scrap and non-ordnance related metal debris were removed in July 03. Final Corrective Measures Completion Report was submitted in November 2003.

## PROPOSED PLAN

No Further Action

## STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

Metals, Explosives

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

Phase I & II RFI, CMD, CMS

**CURRENT IRP PHASE:**

NFA

**FUTURE IRP PHASE:**

RC

## Old Area 2 (Including Mustard Holding and Pit Areas)

### SITE DESCRIPTION

This approximately 50-acre site was located on the east central portion on the Depot (north of SWMU 8, west of SWMU 34). This site includes the Area 2 Mustard Holding Area (Chemical Ammo Safeguarding Area) (40-acres) and the Open Storage of Agent Container and Burn Pits Area (10-acres) just south of Area 2. The site is partially fenced.

Both areas were used to store munitions containing mustard, chemical agent identification sets, and war gas identification sets. All storage containers were removed prior to 1986.

The Burn Pits were used sometime between 1940 and 1970.

Previous soil samples indicated heavy metals and agent breakdown product in the Burn Pits. No contaminants of concern were detected in the soil of Area 2. Groundwater samples taken from ~400ft down gradient (closest well) have not detected any contaminants of concern.

The fence was expanded to include the Burn Pit Area and 1 additional wells was installed downgradient (late FY03).

### STATUS

**RRSE RATING:**

Medium Risk

**CONTAMINANTS OF CONCERN:**

Metals, Agent Breakdown Products

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMD, CMI

**CURRENT IRP PHASE:**

LTM

**FUTURE IRP PHASE:**

LTM

### PROPOSED PLAN

Groundwater monitoring and fence maintenance will continue.

# TEAD(S)-28, SWMU 19

## Building 533 (Empty Drum Storage)

### SITE DESCRIPTION

Building 533 was formerly used for railroad car maintenance and drum storage. This site is located next to the Deactivation Furnace (TEAD[S]-14, SWMU 17). Although there is limited information on the wastes which have been stored in Building 533, trash, wood, empty brass shell casings, 5-gallon paint containers, and drums were observed at the site. The building was torn down in December 1991, but the concrete foundation is still remaining.

The Phase I RFI found low levels of PCBs in the water collected from a sump. Organics, PCBs and metals were detected in the soil. Low levels of TCE/organics were found in the groundwater.

A draft Work Plan was approved in early FY03. The septic tank was backfill in spring 2004.

### PROPOSED PLAN

Groundwater monitoring will continue.

### STATUS

**RRSE RATING:**

High Risk

**CONTAMINANTS OF CONCERN:**

PCBs, Organics, Metals

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, RFI, CMD, CMS

**CURRENT IRP PHASE:**

LTM

**FUTURE IRP PHASE:**

LTM



# TEAD(S)-15, SWMU 21 & 22 Incendiary Washout Operations (Bldg S-554) & Incendiary Washout Basins

## SITE DESCRIPTION

Washout of incendiary munitions occurred in Building S-554 from the 1940s to the late 1950s. Munitions were demilitarized in Building S-554. Wastewater from the operations were channeled to a concrete drain that divided the flow equally between the six adjacent concrete washout basins (totaling ~40 x 60 x 15ft deep).

This site has undergone a Phase I RFI. The only contamination found was some TCLP-positive (barium) sludge in the concrete basins.

The Phase II RFI was completed in December 2002. The final CMS was submitted in March 04. Basin was backfilled in Spring 2004.

## PROPOSED PLAN

Groundwater monitoring will continue.

## STATUS

### RRSE RATING:

High Risk

### CONTAMINANTS OF CONCERN:

Metals

### MEDIA OF CONCERN:

Sludge, Soil, Groundwater

### COMPLETED IRP PHASE:

PA/SI, RFI, CMD

### CURRENT IRP PHASE:

CMI, LTM

### FUTURE IRP PHASE:

LTM

# TEAD(S)-22, SWMU 25

## Western Demil Area/ Disposal Pits

### SITE DESCRIPTION

A variety of demilitarization and disposal activities were conducted at this 1,105 acre, fenced SWMU from 1945 to 1978 along the southern fenceline of the installation. The western part of the SWMU is occupied by approximately 50 burial pits, each about 3.5 acres. The pits were created by numerous superimposed explosion craters (from former OB/OD activity). The eastern part of the SWMU contains numerous covered munitions, burn smudges, and disposal trenches.

Limited sampling identified metals and VOCs in the soil.

Carbon tetrachloride has been detected in the groundwater.

A site survey within the SWMU boundaries was completed in FY03.

### PROPOSED PLAN

Groundwater monitoring will continue. Conduct off-post survey for UXO and debris (~35 acres). The Phase II RFI will be completed to describe risk for the site and will consist of soil and soil gas sampling at many selected locations throughout the 1,000 acres, installing additional wells, delineating groundwater contamination and mapping pit locations. Institutional controls will be implemented. No large scale intrusive work is planned, but sampling and other investigative work will be complicated by the potential presence of chemical munitions. Monitored natural attenuation is expected to be the groundwater remedy.

### STATUS

**RRSE RATING:** Medium Risk

**CONTAMINANTS OF CONCERN:**

Explosives, Chemical Munitions,  
VOCs, SVOCs, Carbon Tetrachloride

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

Phase II RFI

**FUTURE IRP PHASE:**

RFI, IRA, CMD, CMI, LTM

# TEAD(S)-17, SWMU 26 Sanitary Landfill

## SITE DESCRIPTION

The 44-acre landfill was used from 1956 to 1980. Currently, the landfill is fully covered and is not accepting any waste material.

The Phase I RFI found low levels of VOCs in groundwater. Because wastes remain buried, long term groundwater monitoring is recommended.

## PROPOSED PLAN

LTM will continue.

## STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

VOCs

**MEDIA OF CONCERN:**

Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

LTM

**FUTURE IRP PHASE:**

LTM

# TEAD(S)-19, SWMU 28

## Inactive Landfill

### SITE DESCRIPTION

SWMU 28 is an inactive landfill. In 1972, the landfill was filled to grade and revegetated. The landfill was used for solid waste, paper, and building debris disposal between 1963 and 1972.

LTM has found low levels of VOCs, explosives and metals in the groundwater.

### PROPOSED PLAN

A request to stop the long term monitoring was submitted to UDEQ in September 2002. A closure letter will be submitted to UDEQ.

### STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

Metals, VOCs, Explosives

**MEDIA OF CONCERN:**

Groundwater

**COMPLETED IRP PHASE:**

PA/SI, RFI, LTM

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

# TEAD (S) -23, SWMU 30 CAMDS Landfill

## SITE DESCRIPTION

This site was used from the mid-1950s to the early 1970s as a disposal area (~0.5 acre). Wood and dunnage were burned in three trenches, which were backfilled when disposal operations ceased. After the CAMDS Facility (SWMU 13) was built in 1979, the eastern portion of SWMU 30 was used for disposal of construction debris, including dirt, concrete, asphalt and PVC pipe.

The Phase II RFI found low levels of arsenic in soil.

## PROPOSED PLAN

Groundwater monitoring will continue.

## STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

Metals

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMD, CMI

**CURRENT IRP PHASE:**

LTM

**FUTURE IRP PHASE:**

LTM

# TEAD(S)-32, SWMU 37

## Slag Piles & Bomb Fragments

### SITE DESCRIPTION

This SWMU consisted of slag piles (approximately 5 x 10 x 3ft high) and small amounts of scattered bomb fragments. The piles contained slag (residue from burning) with some firebricks and composite roofing shingles. Some of the slag piles were removed and properly disposed of during Phase II RFI field work in 1995.

This SWMU was not identified until after the Phase I investigation was complete. Thus, to meet permit requirements, the SWMU was included in the Group 1 Phase II RFI. Since minor contamination was detected, the SWMU was moved to the Group 3 units for the Phase II RFI.

The Phase II RFI found buried bomb casings covering approximately 200 x 50 x 5ft deep.

The CMS was approved and 1 foot of soil was placed over the site to mitigate the ecological risk.

Corrective Measures Completion Report was submitted in July 2003.

### PROPOSED PLAN

No Further Action.

### STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

Metals, SVOCs

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMD, CMI, IRA

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## **Known Releases**

# **Deseret Chemical Depot Active Sites**

# TEAD(S)-14, SWMU 17

## Deactivation Furnace

### SITE DESCRIPTION

The Deactivation Furnace served as a prototype of the CAMDS facility by disposing of fuses, primers, and small arms. Several drums of mercury-contaminated waste were spilled in November 1986 at this unit and was cleaned up in November of 1990. This removal consisted of removing all mercury-contaminated soil from the site and disposing of it at an off-site location.

The CMS was approved in late FY01.

### PROPOSED PLAN

A site management and closure report will be completed, NFA is expected.

### STATUS

**RRSE RATING:**

High Risk

**CONTAMINANTS OF CONCERN:**

Heavy Metals

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:** PA/SI,  
Phase I & II RFI, REM, CMD, CMI

**CURRENT IRP PHASE:**

RC pending

**FUTURE IRP PHASE:**

RC



**Response Complete**

# Deseret Chemical Depot Sites

## TEAD(S)-08, SWMU 36

### Building 3200 & Surrounding Area

#### SITE DESCRIPTION

Building 3200 may have been used as a laundry and/or a showering facility for the workers in the two large demilitarization areas on the southern boundary.

This site has undergone a Phase I RFI, no contamination was detected, thus, no further remedial action is planned.

No contamination was detected during the Phase I RFI and no further action is planned.

#### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

None

**MEDIA OF CONCERN:**

None

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-11, SWMU 11

### Chemical Munitions Storage Area (Area 10)

#### SITE DESCRIPTION

This SWMU has been used since the mid 1940s to store chemical agents until demilitarization. Groundwater investigations have not indicated any contamination releases. A soil investigation to identify potential spill areas was conducted as part of the Group 3 SWMUs RFI.

This site is active, and some of the buildings are permitted, therefore it is not eligible for ER,A funding.

Any future action needed at this site will be handled under RCRA permit closure criteria at the time that the site is no longer needed.

#### STATUS

**RRSE RATING:**

High Risk

**CONTAMINANTS OF CONCERN:**

Metals, Organics

**MEDIA OF CONCERN:**

Soil, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-12, SWMU 13 CAMDS Facility

### SITE DESCRIPTION

CAMDS has been in operation since 1979 conducting research into and developing methods of demilitarizing lethal chemical munitions. CMS is under completed phase IRP phase. A small amount of diesel fuel (less than 1 inch) is floating on the groundwater surface beneath this site. At the 3X-yard, soil that contained large quantities of chromium has been removed by installation employees.

This site is permitted and active; therefore is not eligible for ER,A funds.

Any needed action will be funded by PMCD.

### STATUS

**RRSE RATING:** Medium Risk

**CONTAMINANTS OF CONCERN:**

POL, Explosives, Heavy Metals,  
Volatiles, Agent breakdown products

**MEDIA OF CONCERN:**

Soil, Groundwater, Surface water

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-13, SWMU 15 Old Demolition Pit (Under Building C-4002)

### SITE DESCRIPTION

It is speculated that this SWMU was used for demilitarization. A large explosion occurred in the 1940s and the 4.2-inch explosive shells were assumed to be demilitarized by the explosion and the crater was filled.

This site has undergone a Phase I RFI; no contamination was detected. No further action was recommended at this site.

The building was demolished in July 1996.

No contamination was detected during the Phase I RFI and no further action is planned.

### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

UXO

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-16, SWMU 23

### Demilitarization Holding Area (North of SWMU 1)

#### SITE DESCRIPTION

This SWMU was used from the 1940s through the 1970s for temporary holding of munitions to be demilitarized. The types of munitions held at this SWMU are unknown. UXO's blown out from the current open detonation area were the only contaminant detected.

This site has undergone a Phase I RFI and no further action was recommended.

No contamination was detected during the Phase I RFI and no further action is planned.

#### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

UXO Fragments

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-18, SWMU 27

### Sewage Treatment Plant

#### SITE DESCRIPTION

This SWMU consists of an Imhoff tank and two unlined sewage lagoons. The Imhoff tank and sewer line were probably installed in 1942. The tank and lines served the barracks, commissary, and support facilities in the area. Before construction of the lagoons in 1980, discharge from the Imhoff tank flowed into the ditches adjacent to the lagoon. The northern lagoon received Imhoff tank effluent and then the overflow ran into the southern lagoon.

This site has undergone a Phase I RFI and no further action was recommended at this site.

No contamination was detected during the Phase I RFI and no further action is planned.

#### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

None

**MEDIA OF CONCERN:**

None

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-20, SWMU 29 Metal Scrap Landfill

### SITE DESCRIPTION

This SWMU was a former borrow pit encompassing approximately 1 acre. The pit is 15 to 20 ft deep.

This site has undergone a Phase I RFI, no contamination was detected. The visible waste was removed during 1997.

Closure report has been submitted to UDEQ for approval.

### STATUS

**RRSE RATING:**

Medium Risk

**CONTAMINANTS OF CONCERN:**

Solid Waste

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI, CMD, CMI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-21, SWMU 32 Railroad Scrap Yard

### SITE DESCRIPTION

Metal piping, shelving, machine parts, and plastic hose covered an area approximately 60 by 600 ft. Two 55-gallon drums containing material resembling insulation were observed at this SWMU. All materials have been removed to the Defense Reutilization Marketing Office and the area has been graded.

No contamination was detected during the Phase I RFI and no further action is planned.

### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

None

**MEDIA OF CONCERN:**

None

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-24, SWMU 31 Demilitarization Area (Northeast of SWMU 1)

### SITE DESCRIPTION

This SWMU is a 29-acre, active, open detonation area located in the south central area of DCD. This SWMU has been active since the 1970s and contains 20 detonation pits. Only high explosive munitions are disposed of at this location.

If remediation is required, it will not be ER,A eligible due to the unit's RCRA permitted status.

If any remediation is warranted, it should be implemented as part of the RCRA closure.

### STATUS

**RRSE RATING:**

Low Risk

**CONTAMINANTS OF CONCERN:**

UXO, Explosives, Metals

**MEDIA OF CONCERN:**

Soil, Surface Water, Groundwater

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-27, SWMU 14 Building 5108 (Former Motor Pool)

### SITE DESCRIPTION

Building 5108 was the former motor pool. The building now houses the DCD administrative offices.

RFI analytical results indicated low level of organic contamination in the soil. These low level of organics have little potential of infiltration to groundwater. The RFI founded no unacceptable risk.

No contamination was detected during the Phase I RFI and no further action is planned.

### STATUS

**RRSE RATING:**

Not Evaluated

**CONTAMINANTS OF CONCERN:**

Organics

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-29, SWMU 20 Building 520 (Crating Facility)

### SITE DESCRIPTION

This site includes Bldg 520 and septic tank 521. This facility was originally a carpentry shop, and became a facility where small smoke pot shipments were processed for transport. The site was idle for 7 years and then was occupied by a change house (where workers showered and changed their clothes). A septic tank was installed to accommodate personnel occupying the building. The building has not been used since the late 1980s. The Building was demolished and the septic tank was removed in 1999. This building is not being used for hazardous waste. All waste was moved to the Area 2.

The soil under the tank and along the tank piping, the sludge in the tank, the tank and the septic tank discharge pipe were sampled during the Phase II RFI. The SVOCs detected at the site do not pose a risk for industrial use. The septic tank leachate pipe was removed in 2000.

The CMS recommending NFA was submitted to Utah DEQ and approved in June 2002.

### STATUS

**RRSE RATING:**

Medium Risk

**CONTAMINANTS OF CONCERN:**

SVOCs

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I & II RFI, CMS

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

## TEAD(S)-30, SWMU 33 Building 536 (CAMDS Salt Storage)

### SITE DESCRIPTION

Prior to the late 1980s this site was used for the storage of salts from the chemical demilitarization of chemical agents at CAMDS. Since then the site has been used as a permitted storage for hazardous and non-hazardous waste.

Sampling conducted at this site during the Phase I RFI detected agent breakdown products in the building's dirt floor. This site is currently undergoing a Phase II RFI as part of Group 3.

After the Phase II RFI and CMS is completed, contamination (if any) resulting from the salt or current storage will be funded with non-ER, A funds.

### STATUS

**RRSE RATING:**

High Risk

**CONTAMINANTS OF CONCERN:**

Agent breakdown products, Metals

**MEDIA OF CONCERN:**

Soil

**COMPLETED IRP PHASE:**

PA/SI, Phase I RFI

**CURRENT IRP PHASE:**

RC

**FUTURE IRP PHASE:**

RC

# TEAD(S)-31, SWMU 34 Building 4105 (Carbon Storage)

## SITE DESCRIPTION

This SWMU has been used to store CAMDS-related charcoal waste since 1978, and is RCRA-permitted. The charcoal is used in an air pollution control system at the CAMDS facility.

This site has undergone a Phase I RFI and no further remedial action is planned.

This site is not eligible for ER,A funds because it is an active, permitted facility.

No contamination was detected during the Phase I RFI and no further action is planned.

The SWMU will be closed under RCRA permit when no longer needed.

## STATUS

### RRSE RATING:

Not Evaluated

### CONTAMINANTS OF CONCERN:

None

### MEDIA OF CONCERN:

None

### COMPLETED IRP PHASE:

PA/SI, Phase I RFI

### CURRENT IRP PHASE:

RC

### FUTURE IRP PHASE:

RC



Because the SWMUs are divided into known releases and suspected releases units, there are two schedules in the DCD Corrective Action Permit. In addition, due to schedule and funding reasons, the 13 suspected releases SWMUs which require a Phase II RFI have been further divided into three groups, each with its own schedule. For the Known Releases Units, the Phase I and II RFI are completed, and the CMS has been completed. For the Know Releases Units, the Phase I and II RFI, and the CMS are completed. For the Suspected Releases Units, the Phase I and II RFI, and the CMS are also completed. Due to the potential agent/UXO threat the Group 1 SWMUs, the RFI is currently "on hold".

For a schedule of the IRP work completed to date and planned for the next few years at DCD, see below.

## PAST MILESTONES

<u>Site Wide Studies</u>	<u>Completion Date</u>
Initial Installation Assessment	Dec 79
Exploratory Survey	Oct 82
PA/SI	Dec 88
RI	Jan 91

### Known Release

Phase I RFI	Mar 90
Phase II RFI	Oct 97
CMS Work Plan	Oct 99
CMS and DD	Sep 01

### Suspected Releases

Phase I RFI	Apr 94
Group 1 Interim Phase II RFI	Dec 95
Group 2 Phase II RFI	Aug 99
Group 3 Phase II RFI	Aug 01
Group 2 CMS and DD	Apr 02
CMS and DD for SWMU 11	Dec 01
CMS and DD for SWMU 20	Nov 01
CMS and DD for SWMU 33	Aug 02
CMS and DD for SWMU 37	Aug 02

## RIP with LTM

TEAD(S)-17	SWMU 26 Sanitary Landfill
TEAD(S)-23	SWMU 30 CAMDS Landfill
TEAD(S)-19	Inactive Landfill
TEAD(S)-09	Area 2 (SWMU 9)
TEAD(S)-28	BLDG 533 (SWMU 19)

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CMS and DD for SWMU 11	Dec 01
CMS and DD for SWMU 20	Nov 01
CMS and DD for SWMU 33	Aug 02
CMS and DD for SWMU 37	Aug 02

## RIP with LTM

TEAD(S)-17	SWMU 26 Sanitary Landfill
TEAD(S)-23	SWMU 30 CAMDS Landfill
TEAD(S)-19	Inactive Landfill
TEAD(S)-09	Area 2 (SWMU 9)
TEAD(S)-28	BLDG 533 (SWMU 19)

## PROJECTED MILESTONES

TEAD(S) 1	Completion of surface ordnance sweep	082003
TEAD(S) 1	Completion of RFI soil/gas sampling	092004
TEAD(S) 1	Completion of UXO precaussion & GW delineation	082003
TEAD(S) 1	Completion of Pit mapping	092004
TEAD(S) 1	Completion of munitions removal and destruction	092006
TEAD(S) 1	Completion of institutional control upgrades	062008
TEAD(S) 2	Completion of Soil cover	092010
TEAD(S) 3	Completion of removal of debris	082003
TEAD(S) 3	Completion of backfill	082003
TEAD(S) 3	Completion of low permeability cap	063004
TEAD(S)15	Completion of backfill basins	063004
TEAD(S) 22	Completion of surface ordnance sweep	082003
TEAD(S) 22	Completion of RFI soil/gas sampling	092004
TEAD(S) 22	Completion of UXO precaussion & GW delineation	082003
TEAD(S) 22	Completion of Pit mapping	092004
TEAD(S) 22	Completion of munitions removal and destruction	092007
TEAD(S) 26	Completion of surface removal from ditch	072003
TEAD(S) 28	Remove septic tank	063004

## NO FURTHER ACTION SITES

TEAD(S)-08	SWMU 36 Building 3200 & Surrounding Area
TEAD(S)-11	SWMU 11 Area 10
TEAD(S)-12	SWMU 13 CAMDS Site
TEAD(S)-13	SWMU 15 Old Demolition Pit (Under Building C-4002)
TEAD(S)-14	SWMU 17 Deactivation Furnace
TEAD(S)-16	SWMU 23 Demilitarization Holding Area (North of SWMU 1)
TEAD(S)-18	SWMU 27 Sewage Treatment Plant
TEAD(S)-19	SWMU 28 Landfill, Closed
TEAD(S)-20	SWMU 29 Landfill, Scrap Metal
TEAD(S)-21	SWMU 32 Railroad Scrap Yard
TEAD(S)-24	SWMU 31 Active OB/OD Area
TEAD(S)-26	SWMU 8 Surveillance Test Site
TEAD(S)-27	SWMU 14 Building 5108 (Former Motor Pool)
TEAD(S)-29	SWMU 20 Building 520
TEAD(S)-30	SWMU 33 Bldg 536
TEAD(S)-31	SWMU 34 Building 4105 (Carbon Storage)
TEAD(S)-32	SWMU 37 Slag Piles

# Remediation Activities

## PAST REM/ IRA/ RA

TEAD(S)-14, At SWMU 17, the Deactivation Furnace, a mercury spill of 26 55-gallon drums occurred in November 1986 and was cleaned up in November of 1990. This removal consisted of removing all mercury-contaminated soil from the site and disposing of it at an approved hazardous waste landfill. Nov 90.

TEAD(S)-12, At the 3X yard at SWMU 13 (the CAMDS Facility), installation personnel noticed that an area of soil had discolored to a yellow hue due to several chemical spills. The soil, which was contaminated by chromium, was excavated by TEAD personnel and properly disposed of at an off-site location. The date and cost of this removal is unknown.

TEAD(S)-21, In either late 1989 or early 1990, TEAD personnel removed all solid waste, primarily metal parts, from the Railroad Scrap Yard (SWMU 32) and disposed of it through DRMO for salvage. No wastes remain at this SWMU. FY 90.

TEAD (S)-32, Slag Piles & Bomb Fragments (SWMU 37) - gravel cover ~1/3 of an acre. May2003.

TEAD(S)-09, Area 2 (SWMU 9) – fencing ~6,000 linear feet. May 2003.

TEAD (S)-26, Surveillance Test Site (SWMU 8) - Removal of ordnance-related scrap and non-ordnance related metal debris. July 2003.

TEAD (S)-05, Building Foundation 60, Drainage Pond, and Ditch (SWMU 5) - Removal and off site disposal of chromium contaminated soil, backfill with clean soil and regrade the area. Nov 03.

## CURRENT REM/ IRA/ RA

None

## FUTURE REM/ IRA/ RA

IRA TEAD(S)-01 Completion of munitions removal and destruction for SWMU 1

RA TEAD(S)-01 Upgrade institutional control

RA TEAD(S)-02 Completion of Soil cover

IRA TEAD(S) 22 Completion of munitions removal and destruction for SWMU 25

RA TEAD(S) 22 Upgrade institutional control

# Community Involvement

The vicinity of Deseret Chemical Depot (DCD) includes the town of Clover, St. John, Faust, Ophir, and Stockton, have a combined population of approximately 1,000. The main community, Tooele, located about 20 miles north of the depot and has a population of more than 15,000 residents. A Technical Review Committee (TRC) was originally formed in February 1988 when the depot, called TEAD South Area, was part of Tooele Army Depot (TEAD). In FY96, the depot became a separate installation and established its own TRC to continually address the depot restoration concerns. The committee includes representatives of the Army, the U.S. Environmental Protection Agency (EPA) Region 8, the Utah Department of Environmental Quality, Utah State University, and Tooele county residents.

With the determination of the installation commander, the TRC was converted to a Restoration Advisory Board (RAB). The first public meeting was conducted in September 1998 to introduce to the potential interest the RAB formation. The first RAB meeting was held in January 1999.

## **Community Relations Plan**

DCD's Community Relation Plan was updated in 1999. This plan was originally prepared in 1994 combining both the Tooele Army Depot (TEAD) north and south areas. This plan includes sections on previous site information, site history, current missions, proposed projects, past community communications, key community concerns, public participation activities and implementation, environmental concerns, etc.